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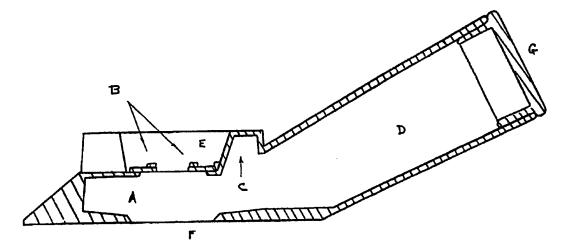
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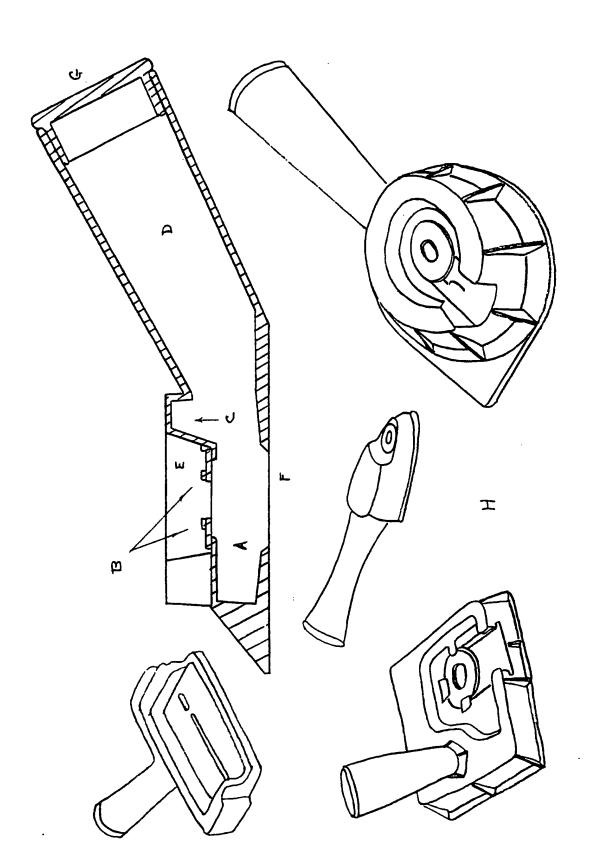
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### (54) Cuttings collecter

(57) A dust and cuttings collector for use with a drill comprises a body A which is pressed against a wall or ceiling to collect cuttings and a hollow handle D which holds the cuttings. The body can be used as a depth stop, and the collector can be converted to a suction collector by removing cap G and connecting to a source of vacuum.





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Drill Mate

Attached drawing shows the device in section. "A" is an enclosure with two holes "E" &2F" on the same centreline.

"C" is a dished area (Waste collection during ceiling drilling).
"D" is a hollow handle (waste container) with end cap "G"
"H" shows pictorial views of devices using the above.

#### DRILL-MATE

Accessory for cleaner working.

An invention to control and collect dust and waste products generated during cutting of various materials. The accessory serves also as a control on the depth of cut of a drill bit.

Drilling and cutting can be a dirty business. This is particularily true when plaster and brick are concerned. During installations the engineer or D.I.Y. person will often be working in a clean environment such as an office or in a home. Dust tends to float into the atmosphere and dirt falls to the floor. Inconvenience is caused with the necessary spreading out of dust sheets and time consumed in the tidying and clean-up afterwards.

When there is no depth stop fitted to an electric drill there are problems with certain jobs. If the materials to be cut are sandwiched into hard and soft materials cutting to a prescribed depth is difficult. If trunking or panelling is to be drilled then cutting can be difficult without breaking through and damaging equipment or cables in the duct or casing.

The invention is a device designed to surround the point at which the material is being cut. The dust is controlled and contained within the body of the device. The heavier debris falls into the handle.

Cutting into a wall (vertical surfaces) the waste falls into the handle.

Cutting into a ceiling the waste falls into the cup of the device.

Cutting into a floor (horizontal surfaces) waste is contained by the perimeter of the device.

For super-clean working a vacuum device hose can be attached at the end of the handle (by removal of an end cap). All dust is sucked away. The device will cling to smooth surfaces (vacuum pressure) for "hands free" operation.

The device doubles as a tool to limit the depth of drilling. By careful setting of the drill position in the drill chuck the drill is stopped at depth by the chuck coming into contact with the impact shield of the device.

#### DRILL-MATE

## CLAIMS

- 1 A handtool to surround a point at which material is being cut. The waste products are contained within the device for disposal later or removed by vacuum. The device is also an aid to drill depth control.
- 2 A handtool as in claim I where the shape of the surround is circular.
- 3 A handtool as in claim 1 where the shape of the surround is rectangular
- 4 A handtool as in claim 1 where the shape of the surround is essentially triangular.
- 5 A handtool as in claim 1 where the shape of the surround is multisided.
- 6 A handtool as in claim 1 plus either of claims 2 5 where an area of the tool is reinforced to protect from drill chuck impact.
- 7 A handtool as in claim 1 plus claim 3 where the device has a slot or slots to accommodate a sawblade.
- 8 A handtool as in claim 1 plus any of claims 2 7 that has a storage zone.
- 9 A handtool as in claim 1 plus claim 8 that has a handle.
- 10 A handtool as in claim I plus claim 8 that has a hollow handle for a dust storage zone.
- 11 A handtool as in claim 1 plus claim 10 where the device has a vacuum outlet attachment.
- 12 A handtool as in claim 1 plus claim 8 where the device has a vacuum outlet and handle combined.
- 13 A handtool as in claim 1 plus either of claims 2 12 where the drill impact area protection shields are replacable.
- 14 A handtool as described herein with a cros-sectional construction approximately as shown in the drawing.

Patents Act 1977 Examiner's report (The Search report	to the Comptroller under Section 17	4	Application number GB 9406735.2	
Relevant Technical	Fields F4X (XA2B1)		Search Examiner ALEXANDER G SMITH	
(i) UK Cl (Ed.M) (ii) Int Cl (Ed.5)	B08B 15/04		Date of completion of Search 13 MAY 1994	
Databases (see below) (i) UK Patent Office collections of GB, EP, WO and US patent specifications.			Documents considered relevant following a search in respect of Claims:- 1-14	
(ii) ONLINE DATA	BASE(S): WPI			

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A:	Document indicating technological background and/or state of the art.	&;	Member of the same patent family; corresponding document.

Category		Identity of document and relevant passages	Relevant to claim(s)
	None		

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